

FIG. 1

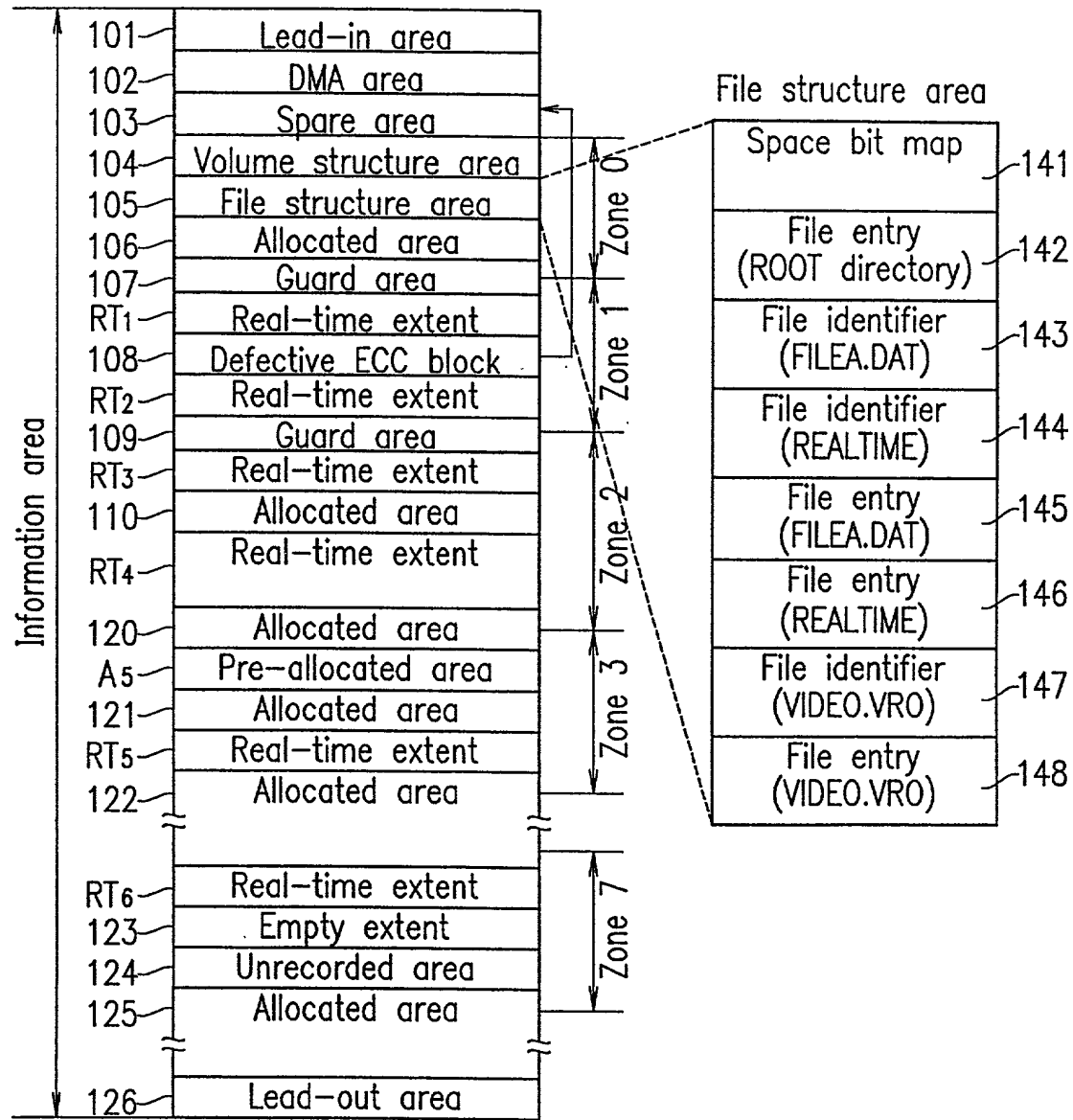
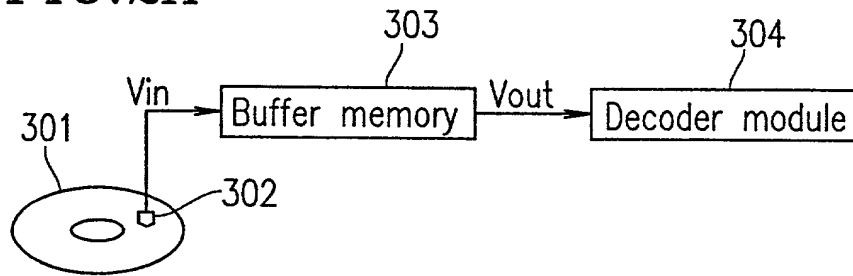
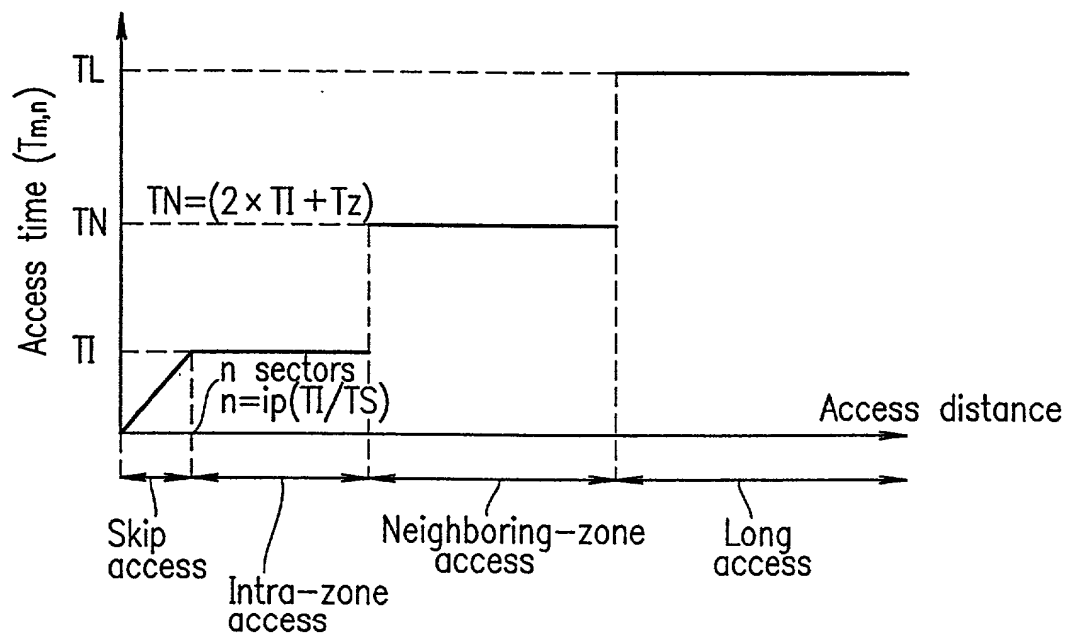


FIG. 2A

Vin: Data transfer rate from disk to buffer memory

Vout: Data transfer rate from buffer memory to decoder module

FIG. 2B

TZ: Zone boundary access time

TS: Single sector latency

FIG. 3

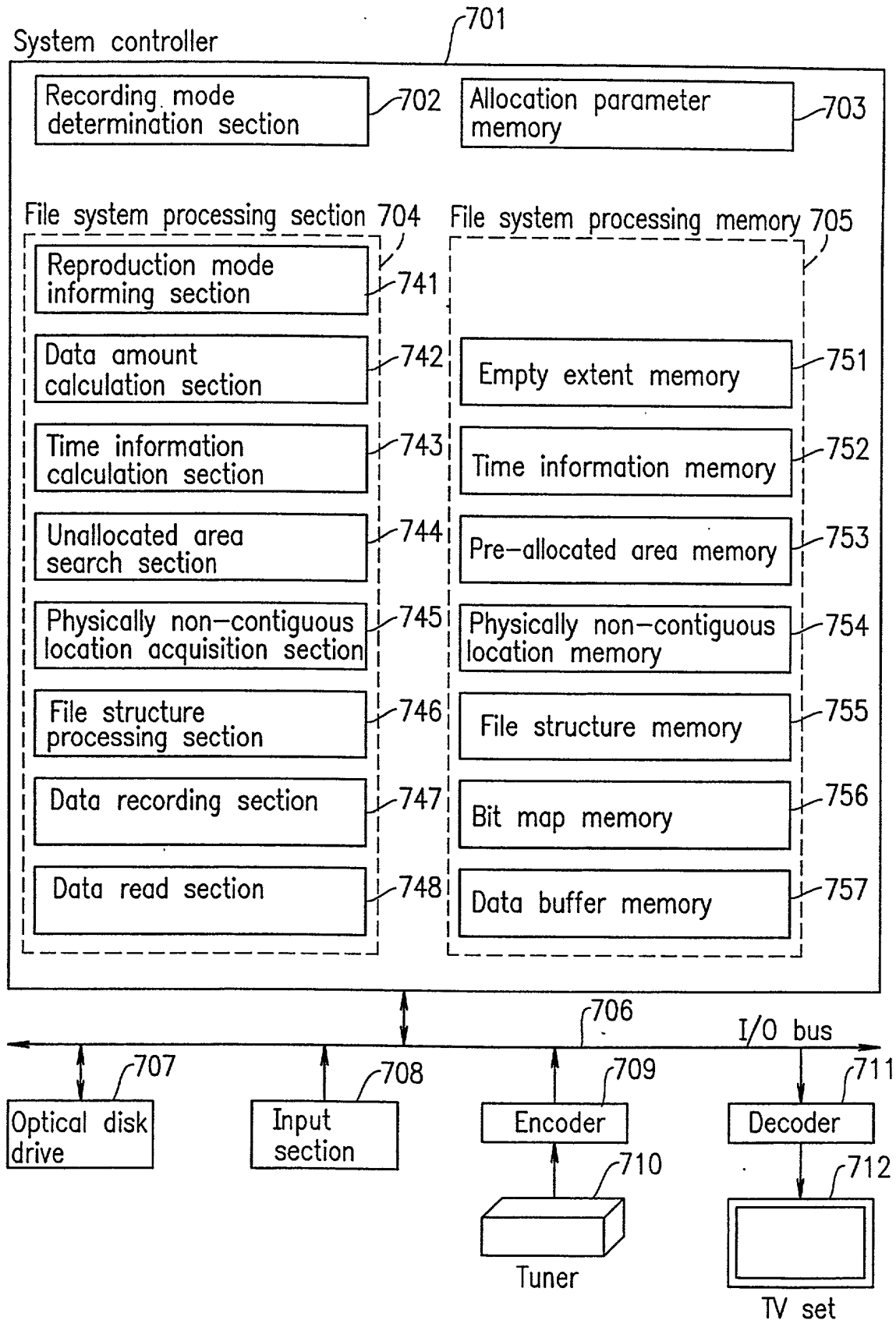


FIG. 4

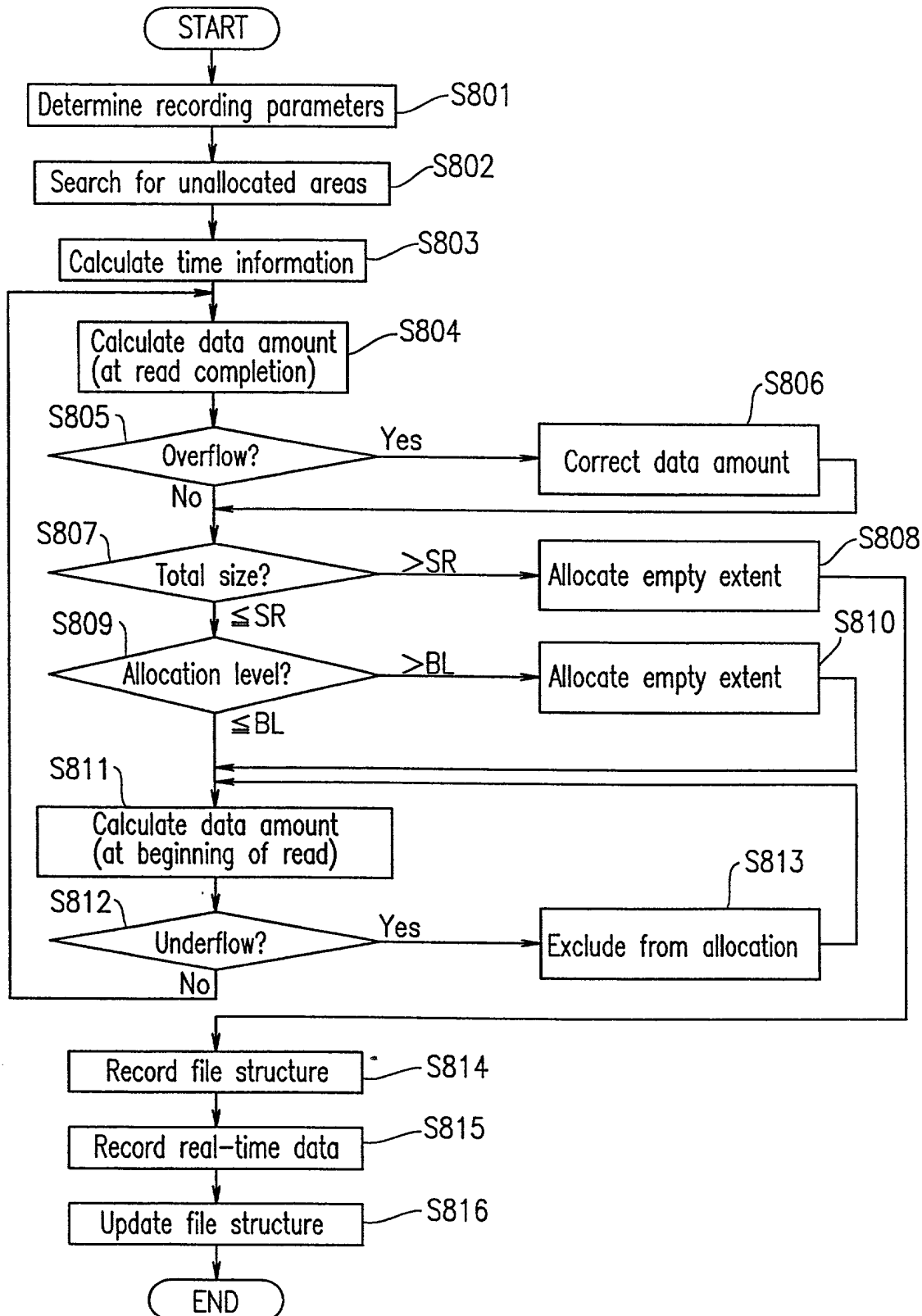


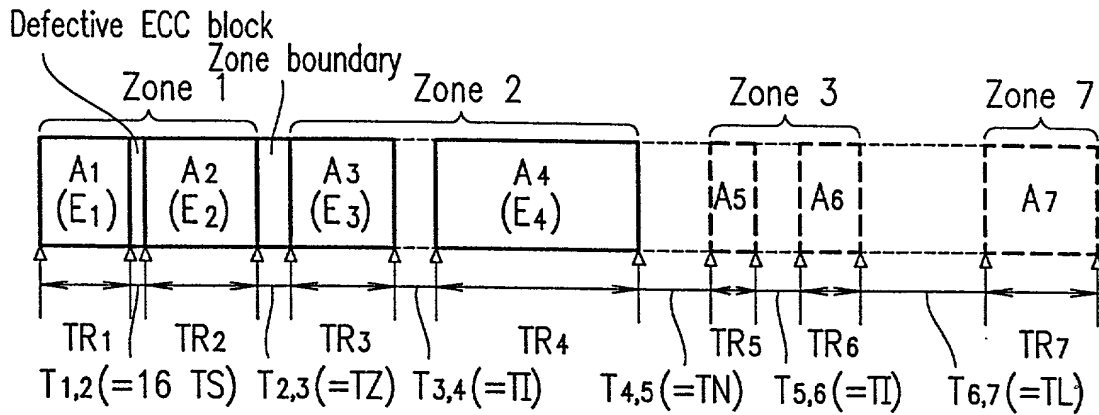
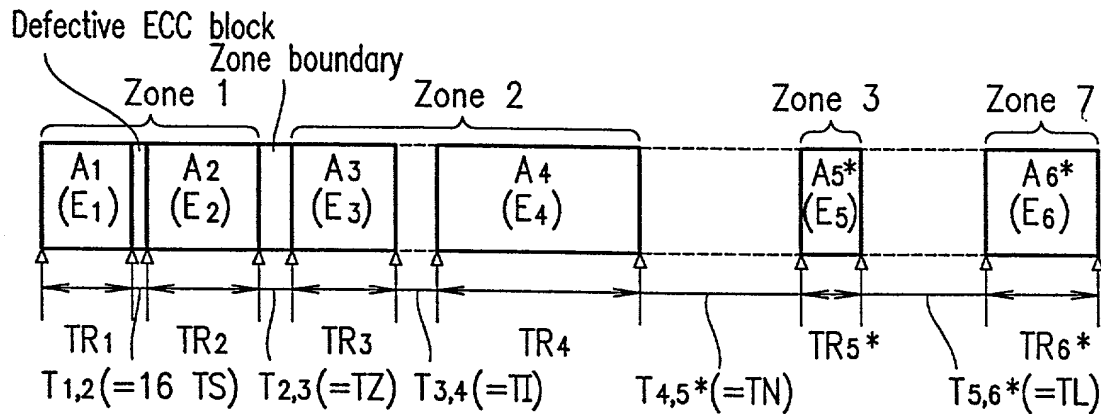
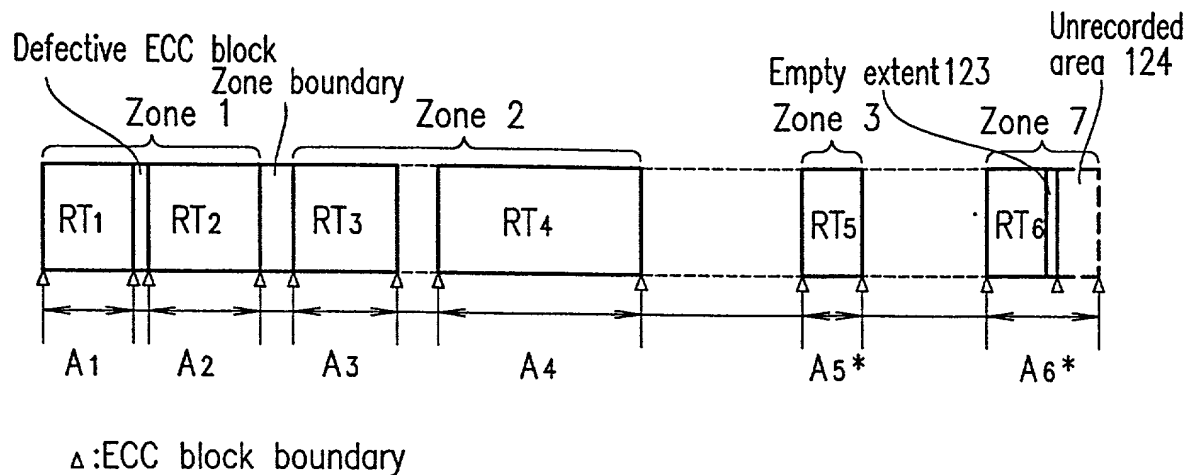
FIG. 5A**FIG. 5B****FIG. 5C**

FIG. 6

Data amount
in buffer memory
 $B(t)$

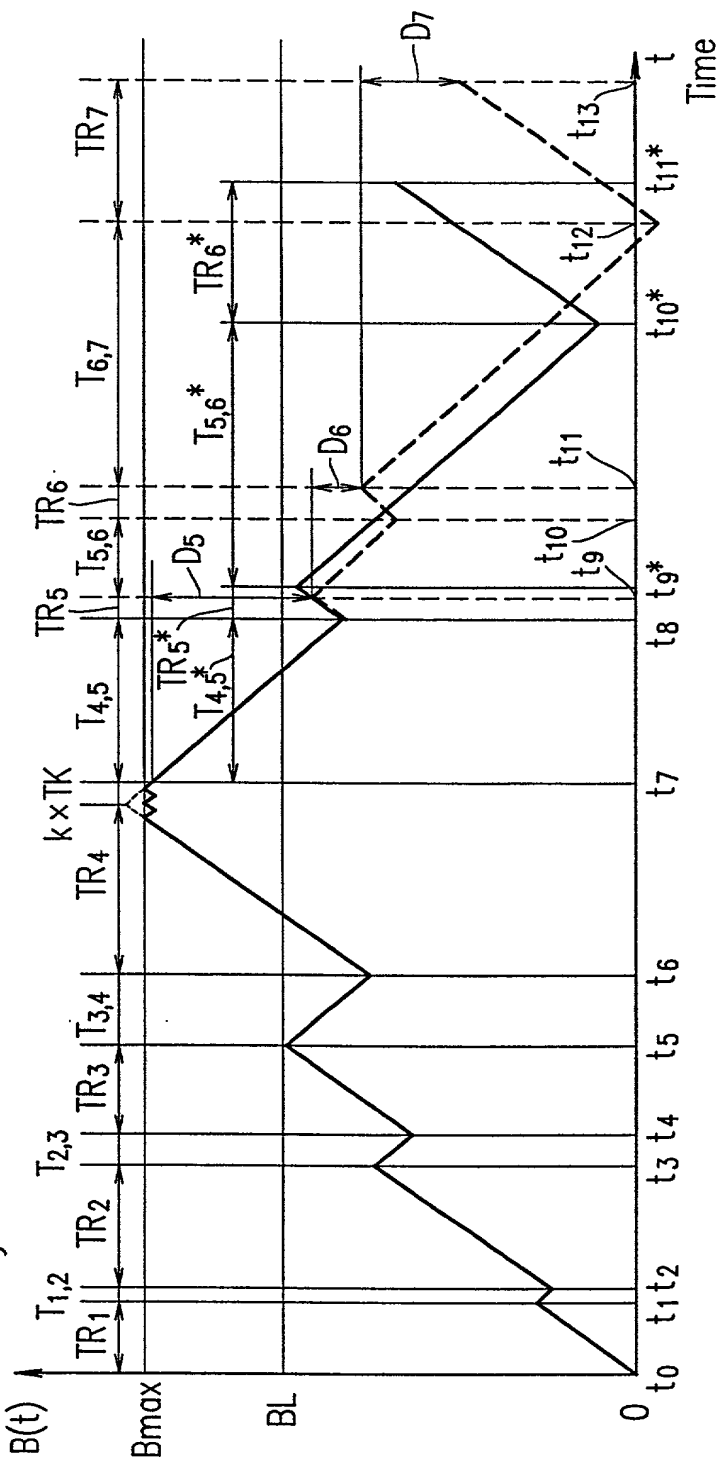


FIG. 7A

File entry

BP	Field name
0	Descriptor tag
16	ICB tag
...	...
56	Information length
...	...
112	Extended attribute ICB
...	...
168	Extended attribute length (=L_EA)
172	Length of allocation descriptor
176	Extended attribute
L_EA+176	Short allocation descriptor for RT ₁
L_EA+184	Short allocation descriptor for RT ₂
L_EA+192	Short allocation descriptor for RT ₃
L_EA+200	Short allocation descriptor for RT ₄
L_EA+208	Short allocation descriptor for RT ₅
L_EA+216	Short allocation descriptor for RT ₆
L_EA+224	Short allocation descriptor for empty extent

ICB tag

RBP	Field name
...	...
11	File type (=249)
...	...
18	Flag bit4=ONE (Non-relocatable bit)

Extended attribute for allocation

RBP	Field name
0	Vin
2	Vout
4	Buffer memory size
6	Access type
8	Ta
10	Tb
12	Tc

FIG. 7B

Short allocation descriptor

RBP	Field name
0	Extent length
4	Extent location

FIG. 7C

Meanings of 2 most significant bits of extent length

Value	Meaning
0	Allocated and recorded (real-time extent)
1	Allocated but unrecorded (empty extent)
3	Extent of subsequent allocation descriptor

FIG. 8

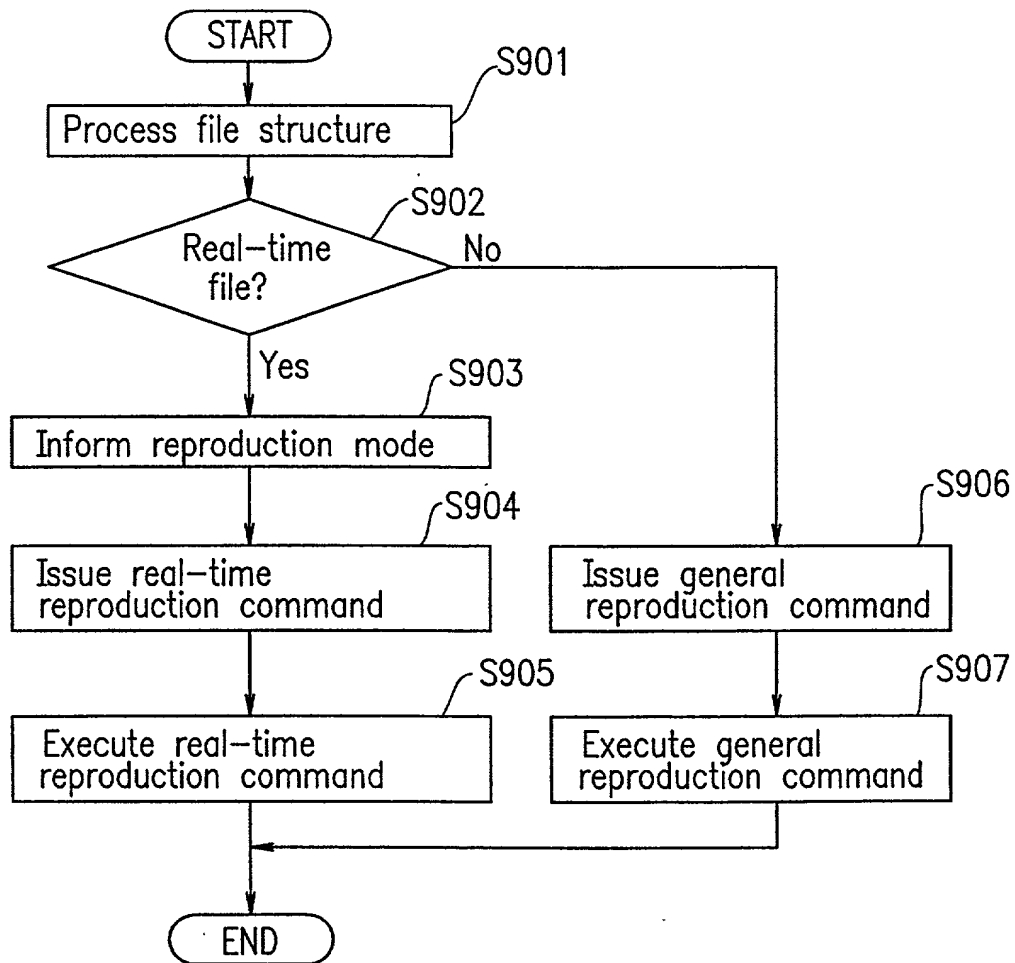


FIG. 9

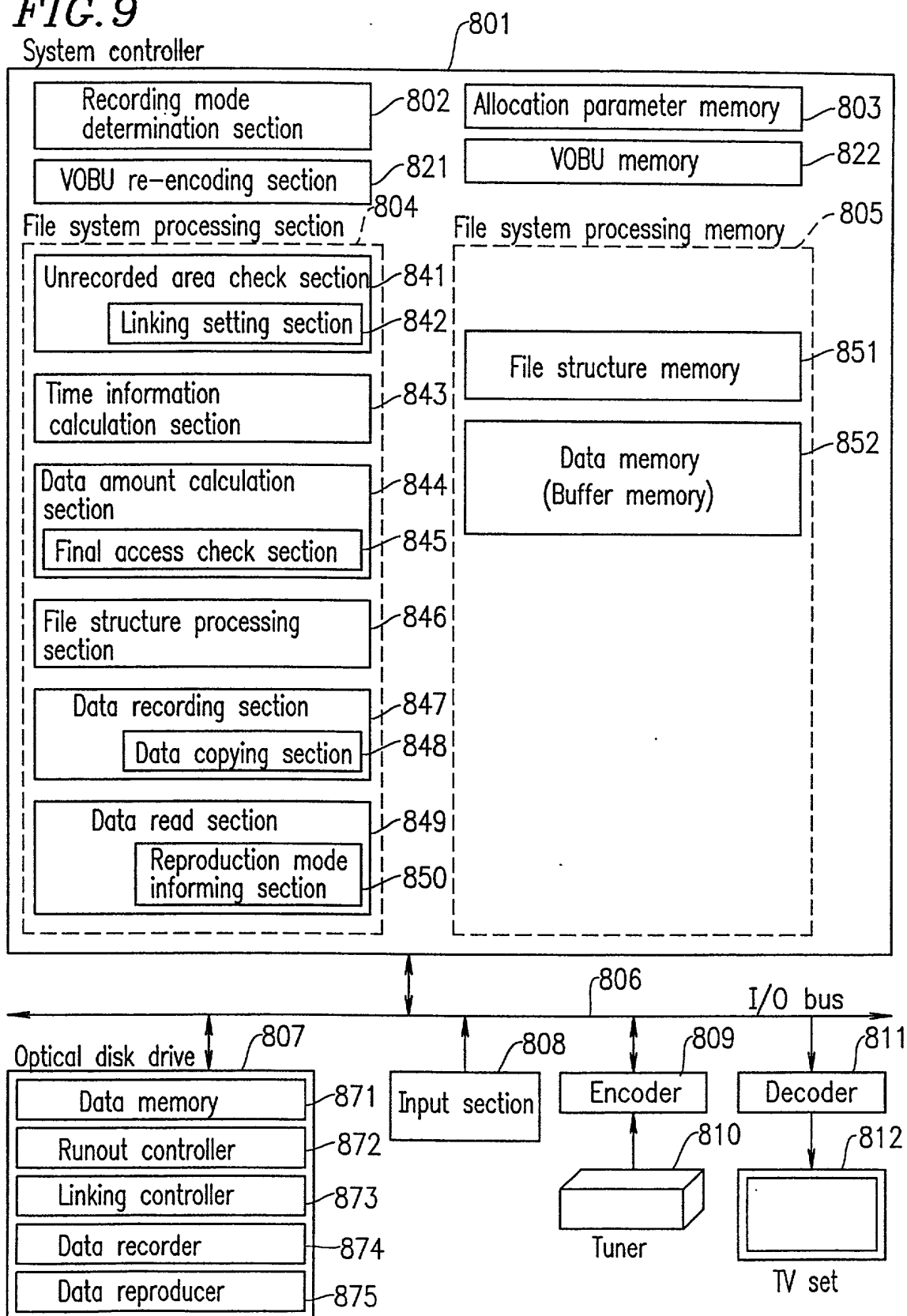
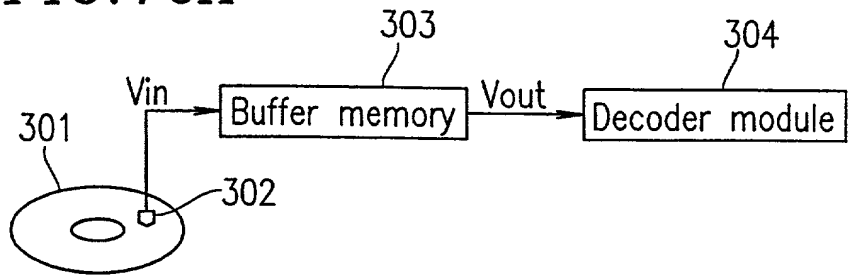
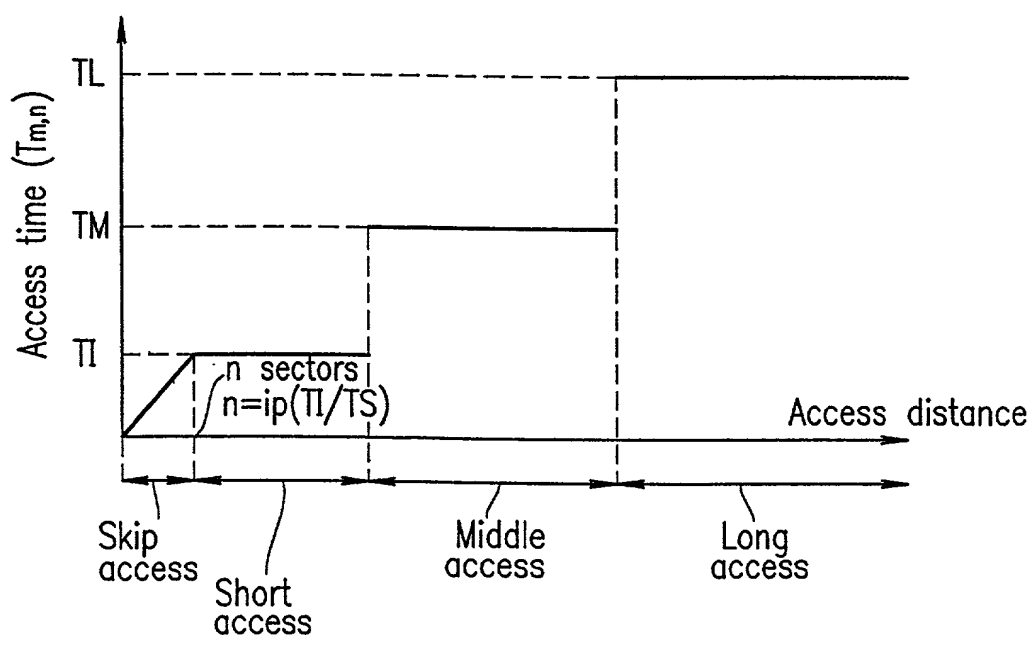


FIG. 10A



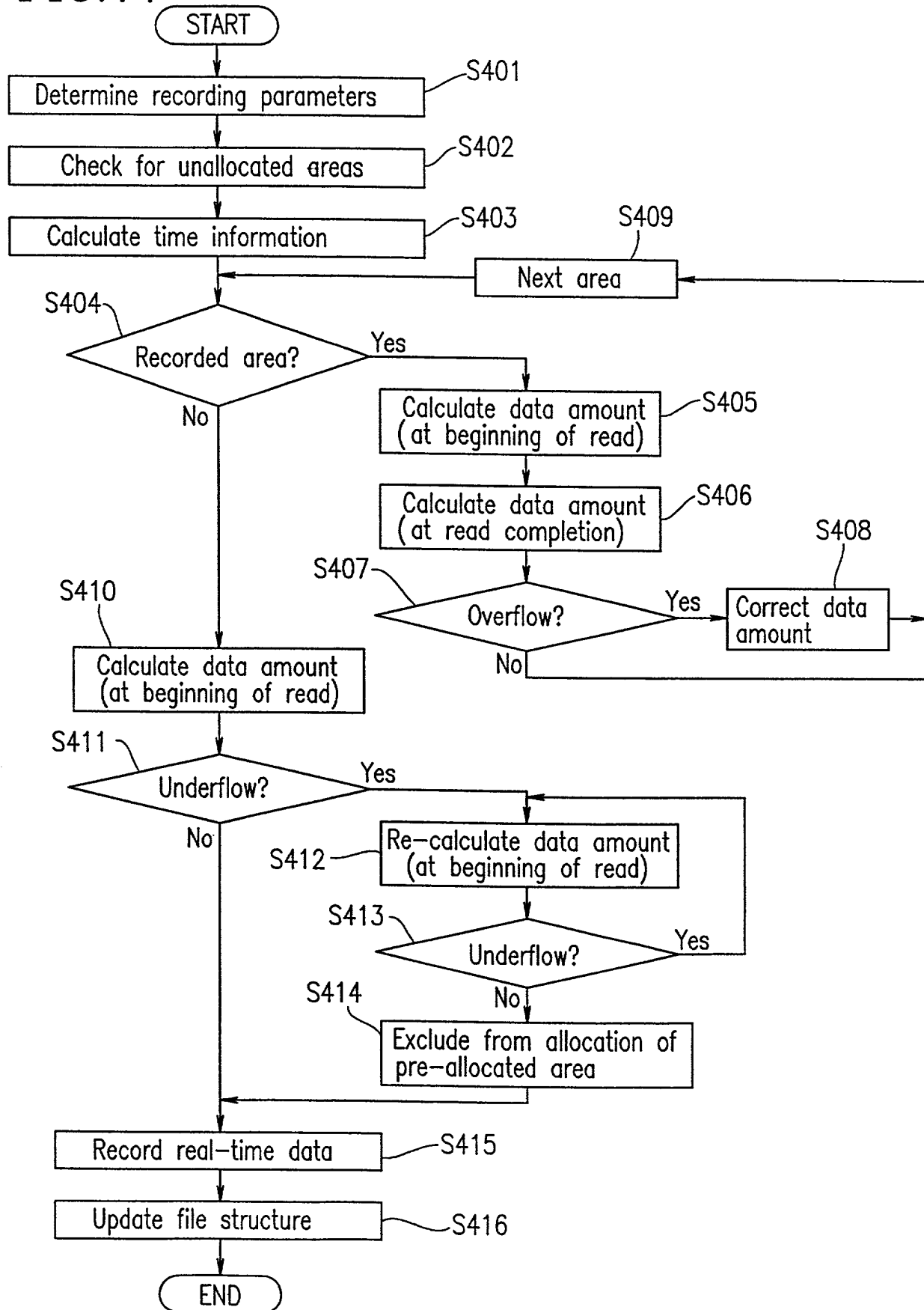
V_{in} : Data transfer rate from disk to buffer memory
 V_{out} : Data transfer rate from buffer memory to decoder module

FIG. 10B



TS: Single sector latency

FIG. 11



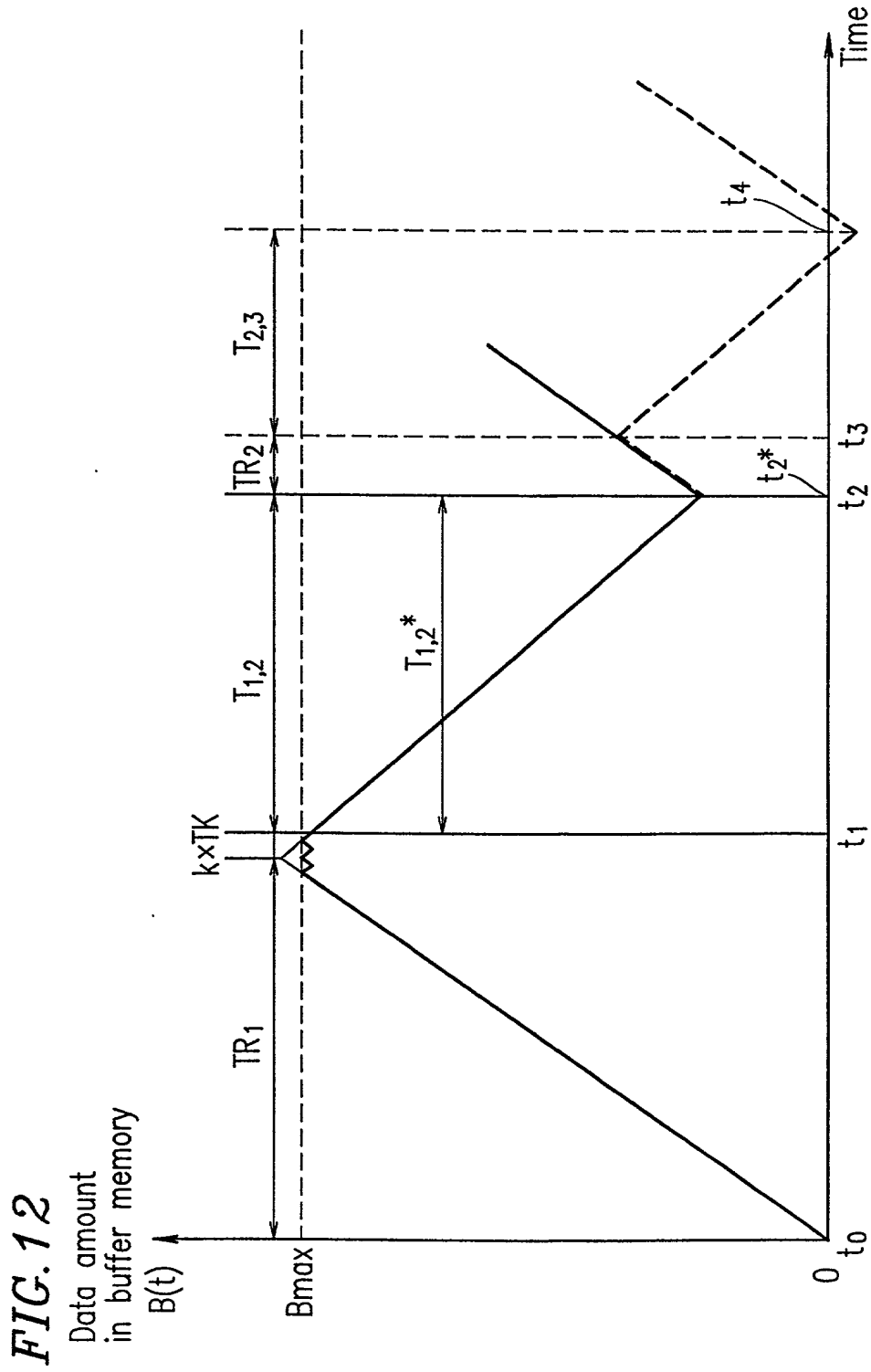


FIG. 13A

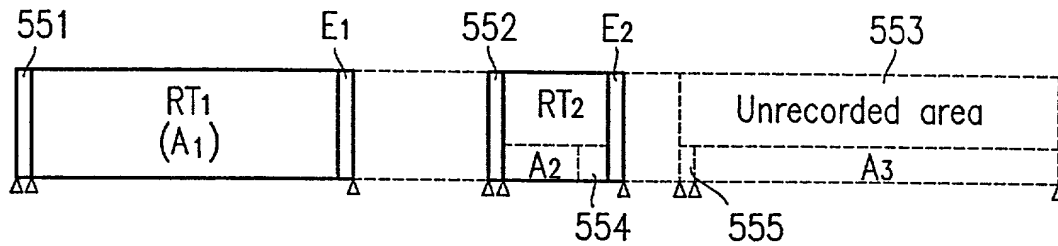


FIG. 13B

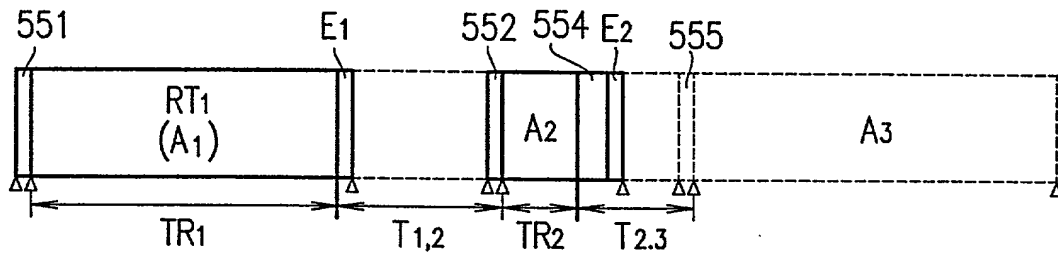


FIG. 13C

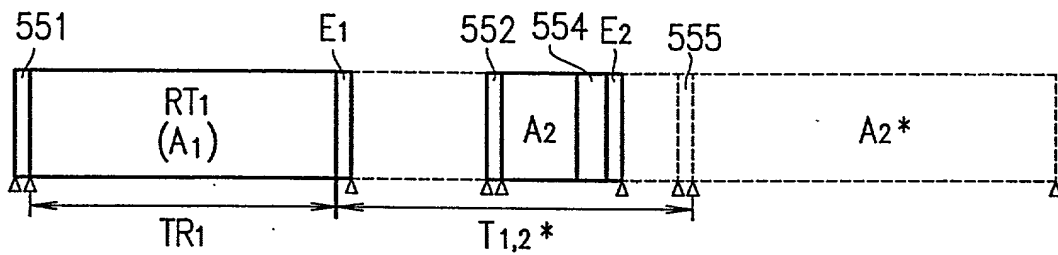
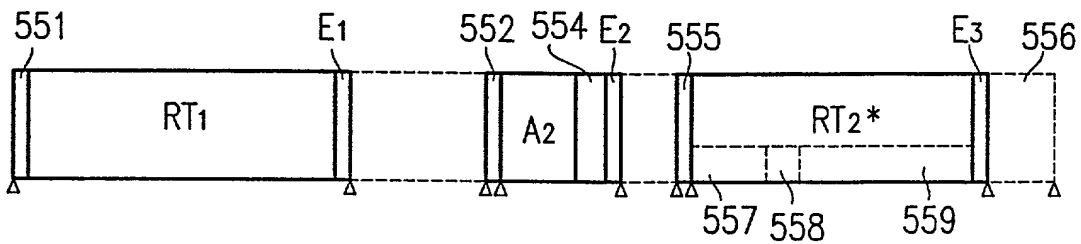


FIG. 13D



△:ECC block boundary

FIG. 14A

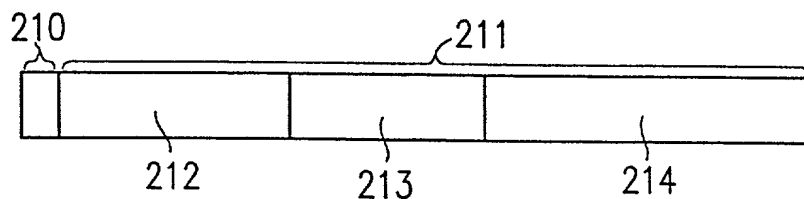


FIG. 14B

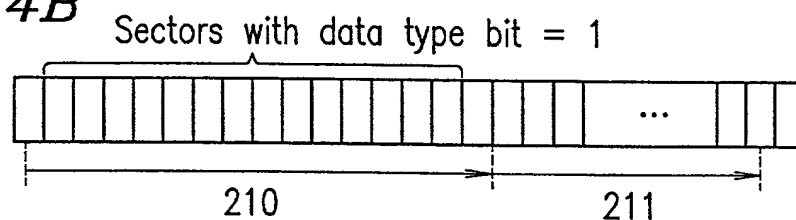


FIG. 14C

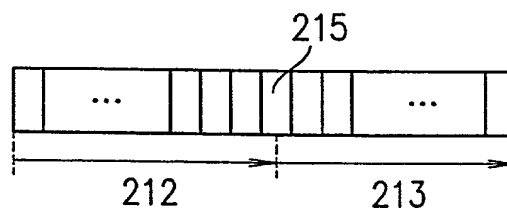


FIG. 14D

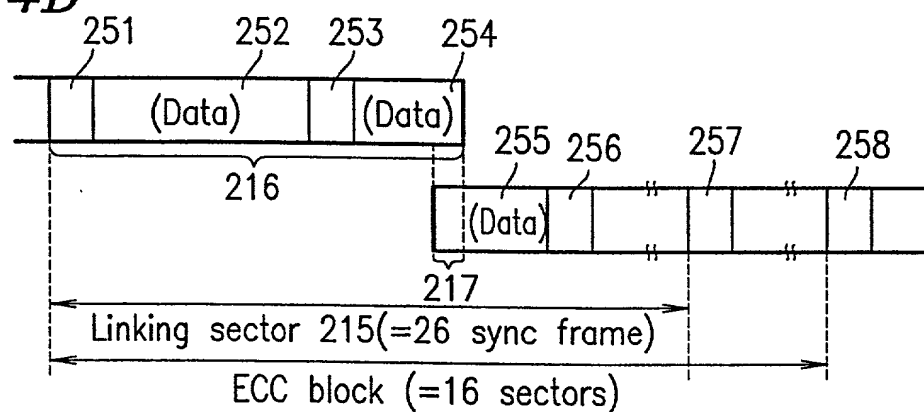


FIG. 14E

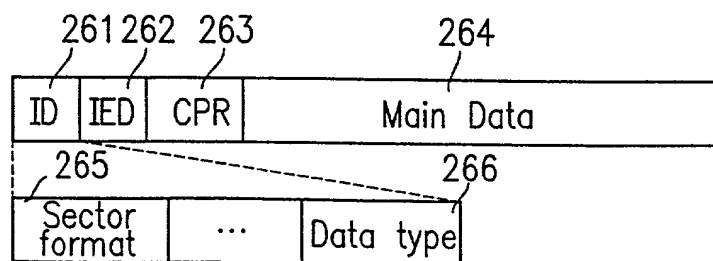


FIG. 15

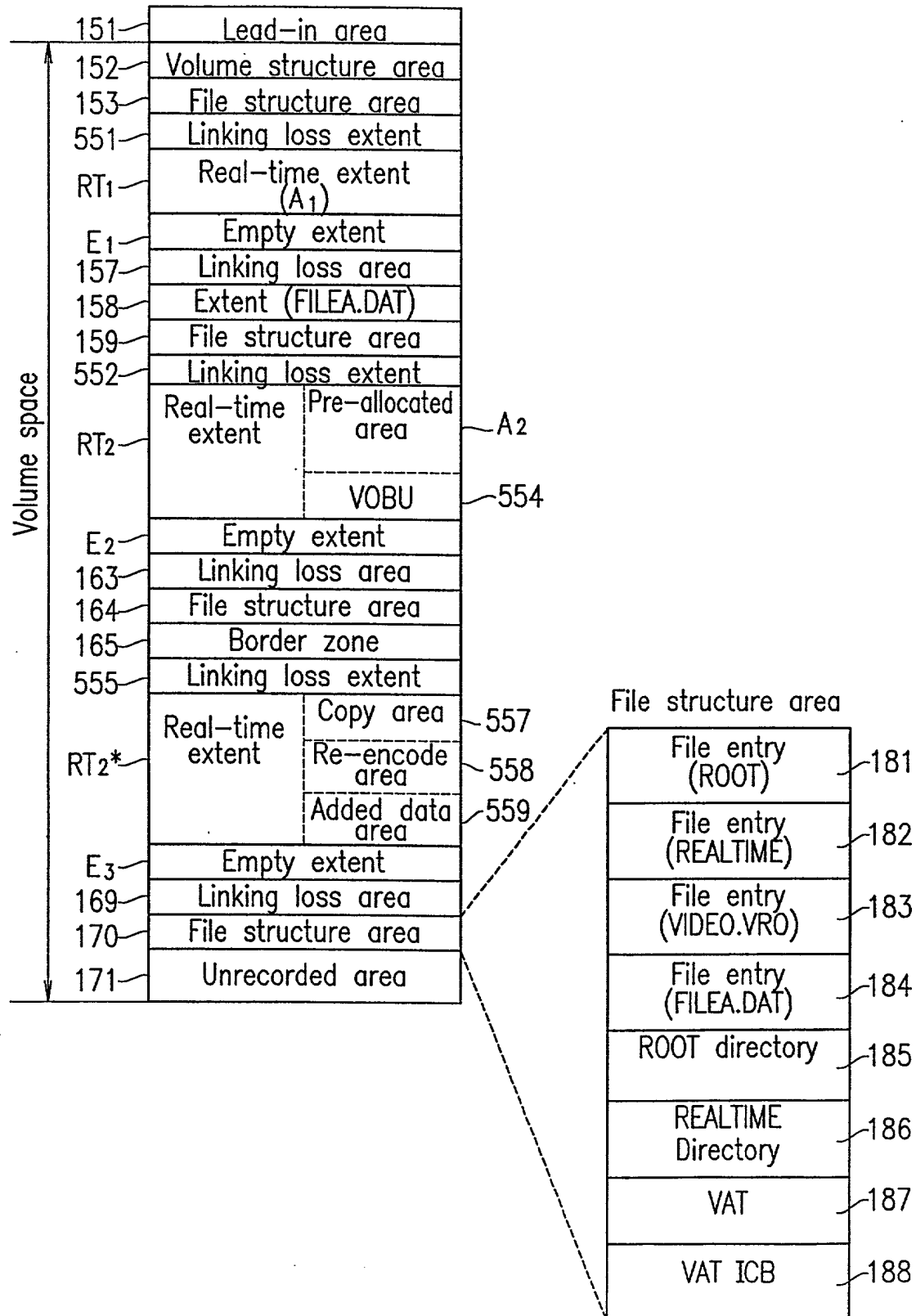


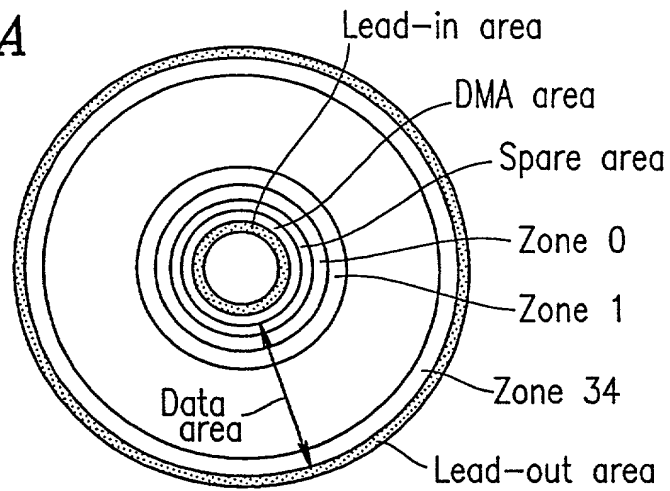
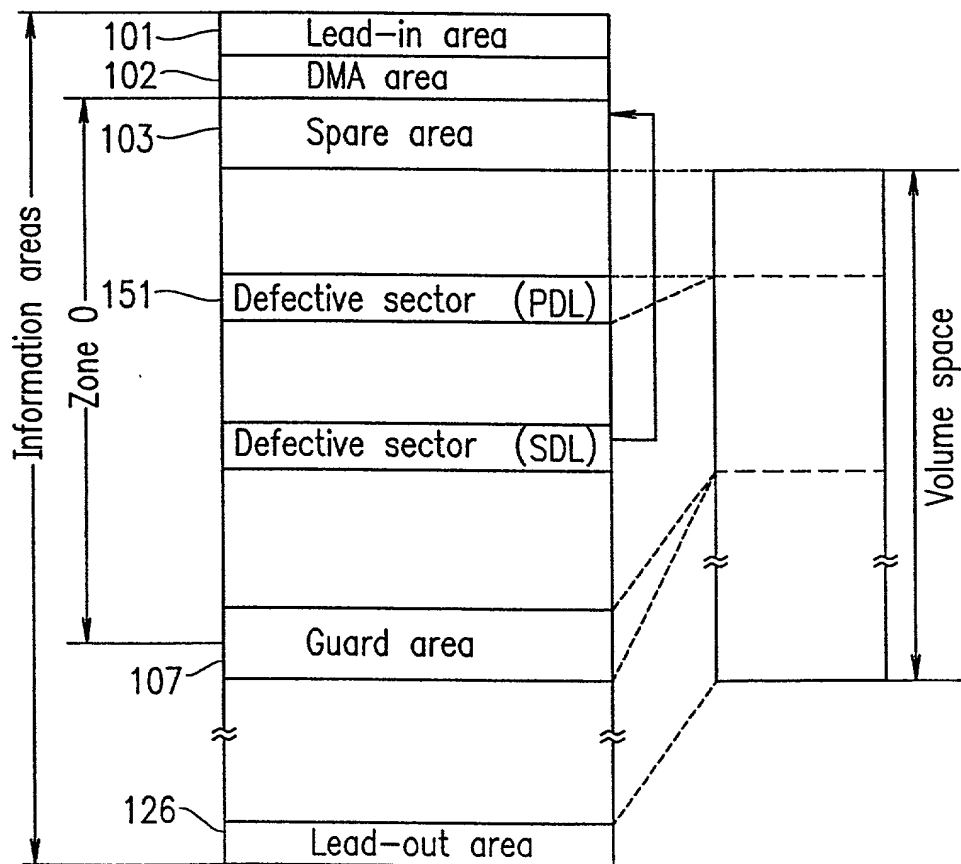
FIG. 16A*FIG. 16B*

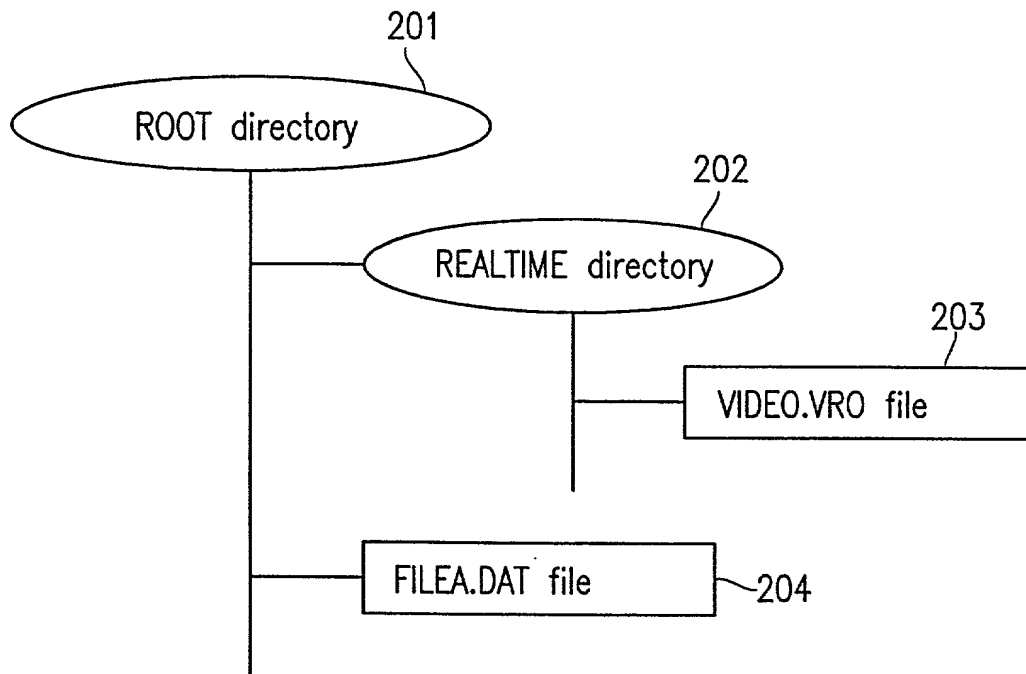
FIG. 17

FIG. 18A

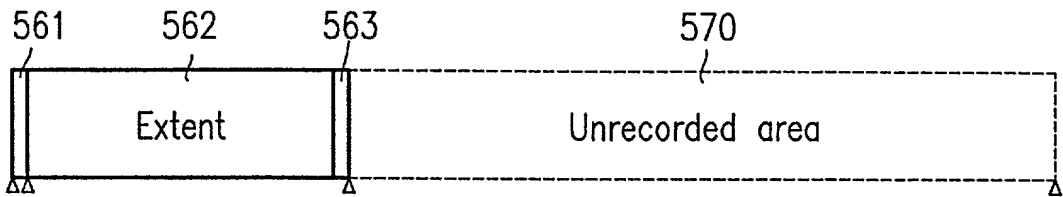


FIG. 18B

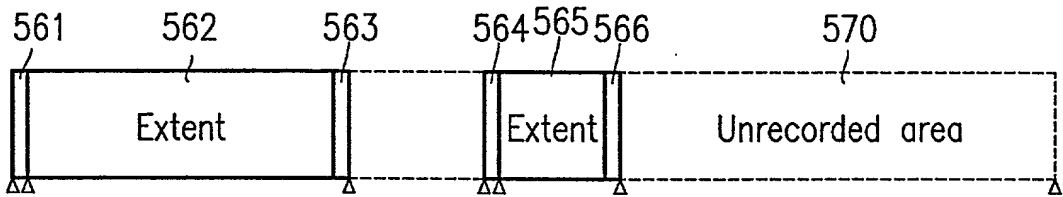
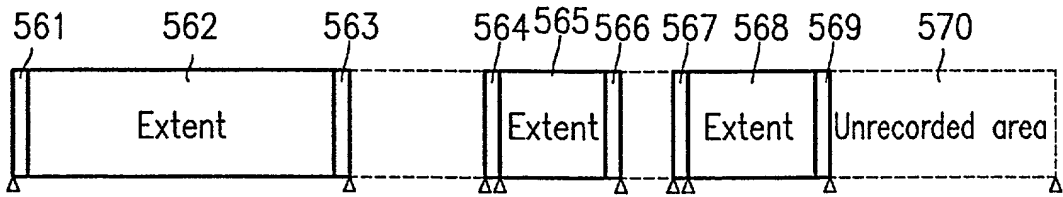


FIG. 18C



△:ECC block boundary

FIG. 19A

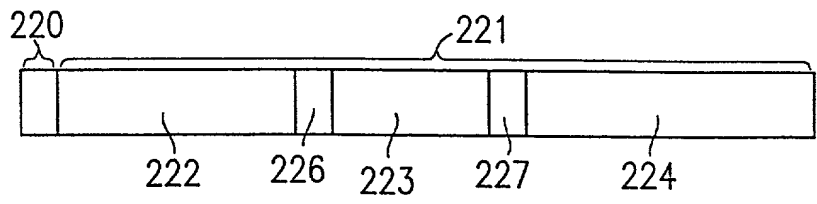


FIG. 19B

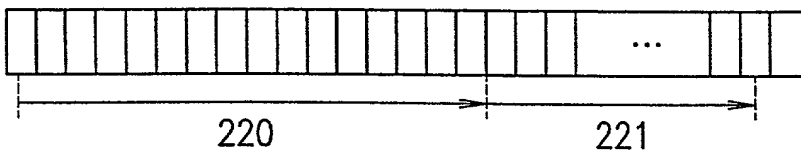


FIG. 19C

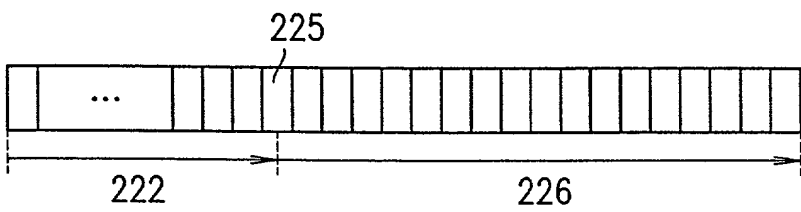


FIG. 19D

